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### NOTICE OF ALLOWANCE AND FEE(S) DUE

34872

7590

09/22/2008

Basell USA Inc.
Delaware Corporate Center II
2 Righter Parkway, Suite #300
Wilmington, DE 19803

EXAMINER			
CHOI, LING SIU			
ART UNIT	PAPER NUMBER		

1796

DATE MAILED: 09/22/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/573,750	03/29/2006	Simona Guidotti	FE 6135 (US)	4299

TITLE OF INVENTION: PROCESS FOR THE ISOMERIZATION OF METALLOCENE COMPOUNDS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	12/22/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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								(Signature)
								(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	ГOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/573,750	03/29/2006	•	Simona Guidotti				FE 6135 (US)	4299
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APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	_	\$0		\$1740	12/22/2008
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CHOI, L	ING SIU	1796	502-164000					
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4a. The following fee(s)	are submitted:	4	b. Payment of Fee(s): (	Pleas	e first reapply ar	ıy prev	iously paid issue fee s	hown above)
Issue Fee			☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached.					
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Basell USA Inc				CHOI, L	ING SIU
Delaware Corpor				ART UNIT	PAPER NUMBER
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### Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 132 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 132 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/573,750	GUIDOTTI ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Ling-Siu Choi	1796	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comm <b>IGHTS</b> . This application is	in this application. If not included nunication will be mailed in due course. <b>THIS</b>	
2. ☑ The allowed claim(s) is/are <u>12-24</u> .			
3. ☑ Acknowledgment is made of a claim for foreign priority unallocation a) ☑ All b) ☐ Some* c) ☐ None of the:  1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have	e been received. e been received in Applicat	on No	
<ol> <li>Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)).</li> </ol>	cuments have been receive	ed in this national stage application from the	
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4. A SUBSTITUTE OATH OR DECLARATION must be subminformal patent APPLICATION (PTO-152) which give	MENT of this application. iitted. Note the attached Eメ	(AMINER'S AMENDMENT or NOTICE OF	
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers	•	ew(PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date  (b) nicluding changes required by the attached Examiner'  Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the state of the s	s Amendment / Comment o	the drawings in the front (not the back) of	
6. ☐ DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MAT	ERIAL must be submitted. Note the	
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview S Paper No 7. ☐ Examiner's	nformal Patent Application  Gummary (PTO-413),  ./Mail Date s Amendment/Comment  s Statement of Reasons for Allowance	

Application/Control Number: 10/573,750 Page 2

Art Unit: 1796

### **DETAILED ACTION**

1. This Office Action is also in response to the Amendment filed 05/19/2008.

Claims 1-11 were canceled and claims 12-24 have been added. Claims 12-24 are now pending.

## Allowable Subject Matter

- 2. Claims 12-24 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

The present claims are allowable over the closest references: Lin (U.S.

5,965,759) and Yoder et al. [Organometallic, 17, 4946-4958 (1998)].

# Summary of Claim 12:

An isomerizati	ion process comprising:	
contacting	a slurry or a solution comprising a meso or meso-like form of at least	
	one bridged metallocene compound of group 4 of the Periodic Table of	
	the Elements having C <sub>2</sub> or C <sub>2</sub> -like symmetry with	
	an <u>isomerization catalyst</u> of formula :	
	[R₄W] <sup>+</sup> X⁻	
	<b>W</b> = nitrogen or phosphorus;	
	<b>R</b> (independently) = $C_{1-40}$ hydrocarbon radicals optionally containing one	
	or more heteroatoms belonging to groups 13-17 of the Periodic Table of	

Application/Control Number: 10/573,750 Page 3

Art Unit: 1796

the Elements;

two R can optionally join to form a saturated or unsaturated  $C_{5-6}$  membered cycle containing W or two R can optionally join to form a radical of formula:

$$R^{1} = R^{1}$$

 $R^1$  (independently) =  $C_{1-20}$  hydrocarbon radicals optionally containing one or more heteroatoms belonging to groups 13-17 of the Periodic Table of the Elements;

P = phosphorous bonded with a double bond to W; and

 $X^{-}$  = a halide.

Lin discloses a metallocene isomerization process comprising heating an isomerization mixture containing (A) a meso form of a bridged metallocene or a mixture of meso and racemic forms of a bridged metallocene, (B) a Groups 1-2 metal halide isomerization catalyst, and (C) a liquid organic isomerization medium, such that at least a portion of the meso form of the metallocene is isomerized to the racemic form, wherein the isomerization catalyst can be a lithium halide or magnesium halide (claims 1-7). Thus, Lin does not teach or fairly suggest the claimed process, wherein the process comprises, in particular, using the specific isomerization catalyst.

Yoder et al. disclose a metallocene isomerization process in the presence of a catalyst such as (n-heptyl)<sub>4</sub>NCl (page 4952-Table 3). Yoder et al. further disclose that "[a]ddition of...(n-heptyl)<sub>4</sub>NCl to a toluene-d<sub>8</sub> solution of 5 (metallocene) result in

immediate initiation of isomerization to the <u>meso isomer</u>" (second column of page 4951). Thus, Yoder et al. do not teach or fairly suggest the claimed process, wherein the meso metalocence is isomerized [to the racemic or racemic-like form].

In light of the above discussion, it is evident as to why the present claims are patentable over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ling-Siu Choi whose telephone number is 571-272-1098.

If attempt to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu, can be reached on 571-272-1114.

Application/Control Number: 10/573,750

Page 5

Art Unit: 1796

/Ling-Siu Choi/

Primary Examiner, Art Unit 1796

September 15, 2008